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(FILE 'HOME' ENTERED AT 21:32:56 ON 27 JUL 2009)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, LIFESCI' ENTERED AT 21:33:55 ON 27 JUL 2009

L1 169 S (PEPTIDE OR PROTEIN OR POLYPEPTIDE OR ANTIBODY) (5A) BIND? (4A) L
L2 4340 S (LIGAND OR LIPOPROTEIN OR PEPTIDE OR PROTEIN OR POLYPEPTIDE O
L3 23165 S ADENO-ASSOCIATED (3A) VIRUS OR AAV
L4 4344 S L1 OR L2
L5 7 S L3 AND L4
L6 3 DUP REM L5 (4 DUPLICATES REMOVED)
L7 778 S (MODIFIED OR ALTERED) (5A) TROPISM
L8 85 S L3 AND L7
L9 31121 S LIPOPROTEIN (W) RECEPTOR
L10 0 S L8 AND L9
L11 44 S L3 (P) L9
L12 23 DUP REM L11 (21 DUPLICATES REMOVED)
L13 71 DUP REM L1 (98 DUPLICATES REMOVED)

=> d au ti so pi 1-3 16

L6 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
IN Zlokovic, Berislav V.; Wu, Zhenhua; Deane, Rashid
TI Therapy of Alzheimer neurovascular dysfunction by transfer of GAX to
promote angiogenesis, suppress apoptosis and increase low d. lipoprotein
receptor-related protein 1
SO PCT Int. Appl., 56pp.

CODEN: PIXXD2

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI	WO 2007019190	A2	20070215	WO 2006-US30148	20060803
	WO 2007019190	A3	20070913		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
	EP 1909574	A2	20080416	EP 2006-800671	20060803
	R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
	US 20090181911	A1	20090716	US 2008-988999	20080318

L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
IN Betz, Ulrich; D'Urso, Donatella; Gatsios, Petros; Seewald, Michael; Strayle, Jochen; Van Es, Helmuth Hendrikus Gerardus; Van Zutphen, Marlijn; Mesic, Emir

TI Novel protein targets and methods of screening for compounds useful in treatment of cardiovascular disorders, dyslipidemia and atherosclerosis
SO PCT Int. Appl., 136pp.

CODEN: PIXXD2

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI	WO 2006092209	A1	20060908	WO 2006-EP1451	20060217
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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

L6 ANSWER 3 OF 3 MEDLINE on STN DUPLICATE 1
 AU Loiler S A; Conlon T J; Song S; Tang Q; Warrington K H; Agarwal A; Kapturczak M; Li C; Ricordi C; Atkinson M A; Muzyczka N; Flotte T R
 TI Targeting recombinant adeno-associated virus
 vectors to enhance gene transfer to pancreatic islets and liver.
 SO Gene therapy, (2003 Sep) Vol. 10, No. 18, pp. 1551-8.
 Journal code: 9421525. ISSN: 0969-7128.

=> d au ti so pi 1-23 l12

L12 ANSWER 1 OF 23 MEDLINE on STN DUPLICATE 1
 AU Craig Anthony T; Gavrilova Oksana; Dwyer Nancy K; Jou William; Pack Stephanie; Liu Eric; Pechhold Klaus; Schmidt Michael; McAlister Victor J; Chiorini John A; Blanchette-Mackie E Joan; Harlan David M; Owens Roland A
 TI Transduction of rat pancreatic islets with pseudotyped adeno-associated virus vectors.
 SO Virology journal, (2009) Vol. 6, pp. 61. Electronic Publication: 2009-05-18.
 Journal code: 101231645. E-ISSN: 1743-422X.
 Report No.: NLM-PMC2687429.

L12 ANSWER 2 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
 AU Craig, Anthony T.; Gavrilova, Oksana; Dwyer, Nancy K.; Jou, William; Pack, Stephanie; Liu, Eric; Pechhold, Klaus; Schmidt, Michael; McAlister, Victor J.; Chiorini, John A.; Blanchette-Mackie, Joan E.; Harlan, David M.; Owens, Roland A.
 TI Transduction of rat pancreatic islets with pseudotyped adeno-associated virus vectors
 SO Virology Journal (2009), 6, No pp. given
 CODEN: VJIOA4; ISSN: 1743-422X
 URL: <http://www.virologyj.com/content/pdf/1743-422x-6-61.pdf>

L12 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
 IN Zlokovic, Berislav V.; Wu, Zhenhua; Deane, Rashid
 TI Therapy of Alzheimer neurovascular dysfunction by transfer of GAX to promote angiogenesis, suppress apoptosis and increase low d. lipoprotein receptor-related protein 1
 SO PCT Int. Appl., 56pp.
 CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007019190	A2	20070215	WO 2006-US30148	20060803
WO 2007019190	A3	20070913		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN,			

MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

EP 1909574 A2 20080416 EP 2006-800671 20060803
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR
 US 20090181911 A1 20090716 US 2008-988999 20080318

L12 ANSWER 4 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
 AU Hu, Chang-Ping; Dandapat, Abhijit; Liu, Yong; Hermonat, Paul L.; Mehta, Jawahar L.
 TI Blockade of hypoxia-reoxygenation-mediated collagen type I expression and MMP activity by overexpression of TGF- β 1 delivered by AAV in mouse cardiomyocytes
 SO American Journal of Physiology (2007), 293(3, Pt. 2), H1833-H1838
 CODEN: AJPHAP; ISSN: 0002-9513

L12 ANSWER 5 OF 23 MEDLINE on STN DUPLICATE 2
 AU Tanigawa Hiroyuki; Billheimer Jeffrey T; Tohyama Jun-ichiro; Zhang YuZhen; Rothblat George; Rader Daniel J
 TI Expression of cholesteryl ester transfer protein in mice promotes macrophage reverse cholesterol transport.
 SO Circulation, (2007 Sep 11) Vol. 116, No. 11, pp. 1267-73. Electronic Publication: 2007-08-20.
 Journal code: 0147763. E-ISSN: 1524-4539.

L12 ANSWER 6 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
 AU Xu, Yongping; Zhang, Muxun; Yuan, Gang
 TI Construction of recombinant adeno-associated virus expressing human full-length very low-density lipoprotein receptor gene
 SO Huazhong Keji Daxue Xuebao (2007), 36(6), 791-794
 CODEN: HKDXBU; ISSN: 1672-0741

L12 ANSWER 7 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
 IN Bowles, Dawn E.; Li, Chengwen; Rabinowitz, Joseph E.; Grieger, Josh; Agbandje-McKenna, Mavis; Samulski, Richard Jude
 TI Viral vectors with enhanced transduction properties comprising a chimeric adeno-associated virus (AAV) capsid, and therapeutic uses
 SO PCT Int. Appl., 81 pp.
 CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006066066	A2	20060622	WO 2005-US45552	20051215
WO 2006066066	A3	20060810		
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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				

	KG, KZ, MD, RU, TJ, TM				
AU	2005316476	A1	20060622	AU 2005-316476	20051215
CA	2591544	A1	20060622	CA 2005-2591544	20051215
EP	1828390	A2	20070905	EP 2005-826631	20051215
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
JP	2008523813	T	20080710	JP 2007-546926	20051215
NZ	555830	A	20090131	NZ 2005-555830	20051215
IN	2007DN05222	A	20070817	IN 2007-DN5222	20070706
CN	101124328	A	20080213	CN 2005-80048323	20070814
US	20080269149	A1	20081030	US 2007-793430	20070822

L12 ANSWER 8 OF 23 MEDLINE on STN DUPLICATE 3

AU Li Dayuan; Liu Yong; Chen Jiawei; Velchala Neelima; Amani Fariba; Nemarkommula Aravind; Chen Kui; Rayaz Hassan; Zhang Dazhi; Liu Hongmei; Sinha Anjan K; Romeo Francesco; Hermonat Paul L; Mehta Jawahar L

TI Suppression of atherogenesis by delivery of TGFbeta1ACT using adeno-associated virus type 2 in LDLR knockout mice.

SO Biochemical and biophysical research communications, (2006 Jun 9) Vol. 344, No. 3, pp. 701-7. Electronic Publication: 2006-04-19. Journal code: 0372516. ISSN: 0006-291X.

L12 ANSWER 9 OF 23 MEDLINE on STN DUPLICATE 4

AU Liu Yong; Li Dayuan; Chen Jiawei; Xie Jin; Bandyopadhyay Sarmistha; Zhang Dazhi; Nemarkommula Aravind R; Liu Hongmei; Mehta Jawahar L; Hermonat Paul L

TI Inhibition of atherogenesis in LDLR knockout mice by systemic delivery of adeno-associated virus type 2-hIL-10.

SO Atherosclerosis, (2006 Sep) Vol. 188, No. 1, pp. 19-27. Electronic Publication: 2005-11-21. Journal code: 0242543. ISSN: 0021-9150.

L12 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN

IN Warrington, Kenneth H.; Opie, Shaun R.; Muzyczka, Nicholas

TI Improved recombinant adeno-associated virus (rAAV) expression systems for genetic modification of specific capsid proteins and therapeutic applications

SO PCT Int. Appl., 180 pp. CODEN: PIXXD2

PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2004027019 A2 20040401 WO 2003-US13583 20030501

WO 2004027019 A3 20040805

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

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CA 2483624 A1 20040401 CA 2003-2483624 20030501

AU 2003295312 A1 20040408 AU 2003-295312 20030501

AU 2003295312 B2 20080814

EP 1496944 A2 20050119 EP 2003-786493 20030501

EP 1496944 B1 20080820

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

NZ 536274 A 20080430 NZ 2003-536274 20030501

AT 405295	T	20080915	AT 2003-786493	20030501
NZ 561656	A	20090331	NZ 2003-561656	20030501
AU 2004226961	A1	20041118	AU 2004-226961	20040219
AU 2004226961	B2	20090611		
CA 2500523	A1	20041118	CA 2004-2500523	20040219
WO 2004099423	A1	20041118	WO 2004-US5205	20040219
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1618201	A1	20060125	EP 2004-712943	20040219
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
HK 1071518	A1	20090424	HK 2005-104362	20050524
US 20060088936	A1	20060427	US 2005-513059	20051002
US 20060093589	A1	20060504	US 2005-513348	20051017
US 20090148411	A1	20090611	US 2009-363454	20090130
US 20090148949	A1	20090611	US 2009-363469	20090130
US 20090149414	A1	20090611	US 2009-363514	20090130

L12 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 5
AU Zhong, Shumei; Sun, Shihua; Teng, Ba-Bie
TI The recombinant adeno-associated virus vector (rAAV2)-mediated
apolipoprotein B mRNA-specific hammerhead ribozyme: A self-complementary
AAV2 vector improves the gene expression
SO Genetic Vaccines and Therapy (2004), 2, No pp. given
CODEN: GVTEBH; ISSN: 1479-0556
URL: <http://www.gvt-journal.com/content/pdf/1479-0556-2-5.pdf>

L12 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
IN Loiler, Scott A.; Flotte, Terence R.; Muzyczka, Nicholas; Atkinson, Mark
A.
TI Improved rAAV vectors for enhancing transduction of cells expressing
low-density lipoprotein receptors and therapeutic uses thereof
SO PCT Int. Appl., 214 pp.
CODEN: PTXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2003089612	A2	20031030	WO 2003-US12225	20030417
WO 2003089612	A3	20040715		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003221733	A1	20031103	AU 2003-221733	20030417
US 20060292117	A1	20061228	US 2005-511914	20050906

L12 ANSWER 13 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
IN Xiao, Weidong; Hauck, Bernd

TI Methods and compositions for the production of chimeric adeno-associated virus (AAV) vectors with broad tissue tropism, and methods of use for gene therapy

SO PCT Int. Appl., 80 pp.

CODEN: PIXXD2

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI	WO 2003088899	A2	20031030	WO 2003-US10600	20030407
	WO 2003088899	A3	20050811		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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	AU 2003253595	A1	20031103	AU 2003-253595	20030407
	US 20040002159	A1	20040101	US 2003-408695	20030407

L12 ANSWER 14 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN

IN Gao, Guangping; Wilson, James M.; Alvira, Maricio

TI Method of detecting and/or identifying adeno-associated virus (AAV) sequences and isolating novel AAV sequences

SO Eur. Pat. Appl., 419 pp.

CODEN: EPXXDW

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI	EP 1310571	A2	20030514	EP 2002-257826	20021112
	EP 1310571	A3	20030813		
	EP 1310571	B1	20060215		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	CA 2406745	A1	20030513	CA 2002-2406745	20021112
	CA 2406745	C	20060110		
	CA 2465868	A1	20030522	CA 2002-2465868	20021112
	WO 2003042397	A2	20030522	WO 2002-US33629	20021112
	WO 2003042397	A3	20040205		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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	AU 2002361573	A1	20030526	AU 2002-361573	20021112
	AU 2002361573	B2	20080612		
	US 20030138772	A1	20030724	US 2002-291583	20021112
	JP 2003235562	A	20030826	JP 2002-328852	20021112
	JP 3958191	B2	20070815		
	EP 1456419	A2	20040915	EP 2002-797050	20021112
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	BR 2002014119	A	20050628	BR 2002-14119	20021112
	JP 2005525086	T	20050825	JP 2003-544211	20021112
	AT 317916	T	20060315	AT 2002-257826	20021112

	HU 2006000229	A2	20060628	HU 2006-229	20021112
	ES 2258601	T3	20060901	ES 2002-257826	20021112
	NZ 532635	A	20070531	NZ 2002-532635	20021112
	HK 1056198	A1	20060616	HK 2003-108160	20031111
	IN 2004DN01155	A	20060728	IN 2004-DN1155	20040429
	ZA 2004003360	A	20050214	ZA 2004-3360	20040504
	MX 2004004600	A	20040813	MX 2004-4600	20040513
	NO 2004002183	A	20040714	NO 2004-2183	20040526
	CN 101426935	A	20090506	CN 2002-827059	20040713
	NZ 548094	A	20080731	NZ 2006-548094	20060623
	AU 2008202344	A1	20080619	AU 2008-202344	20080527
L12	ANSWER 15 OF 23 MEDLINE on STN DUPLICATE 6				
AU	Loiler S A; Conlon T J; Song S; Tang Q; Warrington K H; Agarwal A; Kapturczak M; Li C; Ricordi C; Atkinson M A; Muzyczka N; Flotte T R				
TI	Targeting recombinant adeno-associated virus vectors to enhance gene transfer to pancreatic islets and liver.				
SO	Gene therapy, (2003 Sep) Vol. 10, No. 18, pp. 1551-8. Journal code: 9421525. ISSN: 0969-7128.				
L12	ANSWER 16 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN				
AU	Jalkanen, Johanna; Leppanen, Pia; Pajusola, Katri; Narvanen, Outi; Mahonen, Anssi; Vahakangas, Elisa; Greaves, David R.; Bueller, Hansruedi; Yla-Herttua, Seppo				
TI	Adeno-associated virus-mediated gene transfer of a secreted decoy human macrophage scavenger receptor reduces atherosclerotic lesion formation in LDL receptor knockout mice				
SO	Molecular Therapy (2003), 8(6), 903-910 CODEN: MTOHCK; ISSN: 1525-0016				
L12	ANSWER 17 OF 23 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on STN DUPLICATE 7				
AU	Anderson, R. J. [Reprint author]; Whiteway, A. J. [Reprint author]; Cooper, M. S. [Reprint author]; Orchard, K. H. [Reprint author]; Prentice, H. G. [Reprint author]				
TI	Retargeting of adeno-associated virus type 2 to haematopoietic stem cells by genetic modification of the viral capsid.				
SO	Blood, (November 16, 2000) Vol. 96, No. 11 Part 1, pp. 431a. print. Meeting Info.: 42nd Annual Meeting of the American Society of Hematology. San Francisco, California, USA. December 01-05, 2000. American Society of Hematology. CODEN: BLOOAW. ISSN: 0006-4971.				
L12	ANSWER 18 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN				
AU	Chen, Shu Jen; Rader, Daniel J.; Tazelaar, John; Kawashiri, Masa-Aki; Gao, Guang-Ping; Wilson, James M.				
TI	Prolonged correction of hyperlipidemia in mice with familial hypercholesterolemia using an adeno-associated viral vector expressing very-low-density lipoprotein receptor				
SO	Molecular Therapy (2000), 2(3), 256-261 CODEN: MTOHCK; ISSN: 1525-0016				
L12	ANSWER 19 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN				
IN	Ciliberto, Gennaro; Colloca, Stefano; Fattori, Elena; Fipaldini, Cristina; La, Monica Nicola; Monciotti, Andrea; Palombo, Fabio; Pieroni, Luisa; Recchia, Alessandra; Rizzuto, Gabriella				
TI	Recombinant vectors with improved packaging capacity derived from adeno-associated virus and their use in gene therapy				
SO	PCT Int. Appl., 53 pp. CODEN: PIXXD2				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI	WO 9845462	A1	19981015	WO 1998-IT82	19980408
	W: AU, CA, CN, IL, JP, KR, MX, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9870778	A	19981030	AU 1998-70778	19980408
	CA 2326847	A1	19991021	CA 1999-2326847	19990408
	WO 9953084	A1	19991021	WO 1999-EP2384	19990408
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9939265	A	19991101	AU 1999-39265	19990408
	AU 752811	B2	20021003		
	EP 1068343	A1	20010117	EP 1999-922090	19990408
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	US 6521426	B1	20030218	US 2000-647795	20001208

L12 ANSWER 20 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN

IN Srivastava, Aron; Ponnazhagan, Selvarangan; Chloemer, Robert H.; Wang, Xu-Shan; Yoder, Mervin C.; Zhou, Shang-Zhen; Escobedo, Jaime; Dwarki, Varavani

TI Methods and compositions for liver-specific delivery of therapeutic molecules using recombinant adeno-associated virus vectors

SO PCT Int. Appl., 32 pp.
CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9809524	A1	19980312	WO 1997-US15453	19970902
	W: CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 933997	A1	19990811	EP 1997-940762	19970902
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2001500376	T	20010116	JP 1998-512823	19970902
	US 6521225	B1	20030218	US 1997-921497	19970902
	US 20010051611	A1	20011213	US 2001-912680	20010724
	US 20030166284	A1	20030904	US 2002-109799	20020328

L12 ANSWER 21 OF 23 MEDLINE on STN DUPLICATE 8

AU Chen G; Song L; Zhu X; Zhang X; Zhang C; Wang T; Tang J

TI Effect of adeno-associated virus-mediated transfer of low density lipoprotein receptor gene on treatment of hypercholesterolemia.

SO Science in China. Series C, Life sciences / Chinese Academy of Sciences, (1998 Aug) Vol. 41, No. 4, pp. 435-41.
Journal code: 9611809. ISSN: 1006-9305.

L12 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN

IN Kaplitt, Martin J.; Diethrich, Edward B.; Kaplitt, Michael G.

TI Method for transferring genes to the mammalian heart and blood vessels using adeno-associated virus (AAV)-derived vectors to improve cardiovascular function

SO PCT Int. Appl., 44 pp.
CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9712050	A1	19970403	WO 1996-US15446	19960926
	W: AU, CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 6162796	A	20001219	US 1995-534351	19950927
	CA 2233167	A1	19970403	CA 1996-2233167	19960926
	AU 9672467	A	19970417	AU 1996-72467	19960926
	AU 727835	B2	20010104		
	EP 859853	A1	19980826	EP 1996-933912	19960926
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 11512608	T	19991102	JP 1996-513637	19960926
	ZA 9608170	A	19970721	ZA 1996-8170	19960927

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TI Human genome--chromosome number 19.
SO Casopis lekar u c eskych, (1995 Oct 4) Vol. 134, No. 19, pp. 625-9.
Journal code: 0004743. ISSN: 0008-7335.

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L12 ANSWER 17 OF 23 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on
STN DUPLICATE 7

AB Adeno-associated virus type 2 (AAV-2) is a vector that shows great promise for many gene therapy protocols due to its robust nature and wide tropism. The principle AAV-2 receptors have been identified as heparan sulphate proteoglycan (HSPG) and basic fibroblast growth factor receptor (b-FGFR). AAV-2 shows poor tropism to haematopoietic cells due in part to a lack of these receptors. In order to improve the affinity of AAV-2 for these tissues, we attempted to modify its tropism by targeting it to low density lipoprotein receptor (LDL-R) which is present on normal and leukaemic haematopoietic progenitor cells. LDL-R is a member of a class of molecules that carry ligands into cells after clustering into clathrin coated pits and has a very high binding affinity for, and a rapid internalisation of, its ligands. The identification of the optimised peptide sequence RHLRLKRLRLAR from one of the ligands of LDL-R, apolipoprotein E, has provided us with a model system to assess whether it is possible to modify the tropism of AAV-2. We have inserted oligonucleotides that encode the RHLRLKRLRLAR peptide into different regions of the VPI gene. Using these mutated VPI genes we have made seven different targeted recombinant AAV-2 viruses containing the cDNA for green fluorescent protein ((GFP) (trAAV-GFP)) some of whose titres are identical to that of normal recombinant AAV-2. The monocytic leukaemia cell line U937 is refractory to infection by normal recombinant AAV-GFP and expresses LDL-R. We have shown that the targeted viruses are able to deliver GFP DNA in a virion dependent manner to U937 cells, enhancing the susceptibility of these cells by at least 4 orders of magnitude. These results suggest that by using LDL-R re-targeted virus it should be possible to transduce early haematopoietic progenitor cells.

L12 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN

AB The present invention refers to vectors derived from recombinant Adeno-associated virus (AVV) which comprise at least one selected transgene between the sequences of the 5' and 3' inverted terminal repeats (ITRs) from AAV, and a DNA sequence encoding one or more AAV Rep protein, or a fragment or a derivative thereof, outside of the context of the AAV ITRs. These vectors have a larger packaging capacity and prior art vectors. The vectors according to the invention are useful in gene therapy. Thus,

plasmid pITR(GFP-Neo)P5Rep was prepared and HeLa cells were transfected with it. This plasmid contains the GFP gene under control of the CMV early promoter and the neomycin resistance gene under control of the SV40 early promoter between the 3'- and 5'-ITRs and the Rep gene controlled by the P5 and P19 promoters outside of the ITRs. The ITR-flanked expression construct was inserted into the HeLa cell genome in a Rep-dependent manner at the aavsl site.

L12 ANSWER 20 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN

AB Provided are methods for selectively expressing therapeutic mols., such as secretory proteins, antisense mols. and ribozymes, in the liver. The methods find use in treating hepatic diseases or conditions. The methods also find use in treating any disease or condition in which systemic administration of the therapeutic substance, for example, a secretory protein, is desired. The methods involve administering to a mammalian patient having a need for liver expression of a therapeutic mol. an AAV vector containing a therapeutically effective amount of the therapeutic mol. Also provided are novel vectors employable in these methods. Expts. revealed that, following i.v. injection of AAV vectors into mice, the AAV genomes were found predominantly in the liver. The heterologous genes carried by these vectors (chimeric cytomegalovirus promoter-lacZ or β -globin promoter-globin genes) were expressed in the liver. Cotransfection of adenovirus 2-infected 293 cells with the AAV vectors and helper plasmid containing cap and rep genes resulted in production of 0.1-10% wild-type AAV. Replacement of the last 10 nucleotides of the ITR D sequence with unrelated nucleotides reduced this illegitimate recombination was reduced. Four recombinant AAV vectors (pD-5, pD-10, pD-15 and pD-20) with such modified ITR regions were prepared

L12 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN

AB The invention relates to the use of AAV vectors for the transfer of genes to the heart and vasculature. The vector preferably contains a gene encoding a protein which improves heart and vascular function during heart failure. In a specific embodiment, the vector is introduced into the heart and vasculature via a catheter, with the aid of fluoroscopy. The method and vectors for use therein provide for safe and stable gene expression of the transferred genes.

=> d au ti so pi 40-60 l13

L13 ANSWER 40 OF 71 CAPLUS COPYRIGHT 2009 ACS on STN

AU Webb, Donna J.; Nguyen, Diem H. D.; Sankovic, Mauricio; Gonias, Steven L.
TI The very low density lipoprotein receptor regulates urokinase receptor catabolism and breast cancer cell motility in vitro
SO Journal of Biological Chemistry (1999), 274(11), 7412-7420
CODEN: JBCHA3; ISSN: 0021-9258

L13 ANSWER 41 OF 71 MEDLINE on STN DUPLICATE 18

AU Medved L V; Migliorini M; Mikhailenko I; Barrientos L G; Llinas M; Strickland D K
TI Domain organization of the 39-kDa receptor-associated protein.
SO The Journal of biological chemistry, (1999 Jan 8) Vol. 274, No. 2, pp. 717-27.
Journal code: 2985121R. ISSN: 0021-9258.

L13 ANSWER 42 OF 71 CAPLUS COPYRIGHT 2009 ACS on STN

AU Fidge, Noel H.
TI High density lipoprotein receptors, binding proteins, and ligands
SO Journal of Lipid Research (1999), 40(2), 187-201
CODEN: JLPRAW; ISSN: 0022-2275

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 SO Advances in Vascular Biology (1999), 5(Plasma Lipids and Their Role in Disease), 139-164
 CODEN: AVBIFD; ISSN: 1072-0618
- L13 ANSWER 44 OF 71 CAPLUS COPYRIGHT 2009 ACS on STN
 AU Goretzki, Lothar; Mueller, Barbara M.
 TI Low-density-lipoprotein-receptor-related protein (LRP) interacts with a GTP-binding protein
 SO Biochemical Journal (1998), 336(2), 381-386
 CODEN: BIJOAK; ISSN: 0264-6021
- L13 ANSWER 45 OF 71 CAPLUS COPYRIGHT 2009 ACS on STN
 AU Filippova, M. P.; Bochkov, V. N.; Tkachuk, V. A.
 TI Lipoprotein receptors, lipoprotein-binding proteins, and activation of second messenger system
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 CODEN: UBKHAS; ISSN: 0130-7371
- L13 ANSWER 46 OF 71 MEDLINE on STN DUPLICATE 19
 AU Ellgaard L; Holtet T L; Nielsen P R; Etzerodt M; Gliemann J; Thøgersen H C
 TI Dissection of the domain architecture of the alpha2macroglobulin-receptor-associated protein.
 SO European journal of biochemistry / FEBS, (1997 Mar 1) Vol. 244, No. 2, pp. 544-51.
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- L13 ANSWER 47 OF 71 SCISEARCH COPYRIGHT (c) 2009 The Thomson Corporation on STN
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 Meeting Info.: Annual Meeting of the 6th International Congress on Cell Biology and the 36th American Society for Cell Biology. San Francisco, California, USA. December 7-11, 1996.
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- L13 ANSWER 49 OF 71 MEDLINE on STN DUPLICATE 20
 AU Bochkov V N; Tkachuk V A; Philippova M P; Stambolsky D V; Buhler F R; Resink T J
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 Journal code: 2984726R. ISSN: 0264-6021.
 Report No.: NLM-PMC1217478.

L13 ANSWER 50 OF 71 MEDLINE on STN DUPLICATE 21
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L13 ANSWER 51 OF 71 MEDLINE on STN DUPLICATE 22
 AU Holtzman D M; Pitas R E; Kilbridge J; Nathan B; Mahley R W; Bu G; Schwartz A L
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 Journal code: 7505876. ISSN: 0027-8424.
 Report No.: NLM-PMC40825.

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 Report No.: NLM-PMC41650.

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 AU Warshawsky I; Bu G; Schwartz A L
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 Journal code: 0370623. ISSN: 0006-2960.

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 AU Overbergh L; Lorent K; Torrekens S; Van Leuven F; Van den Berghe H
 TI Expression of mouse alpha-macroglobulins, lipoprotein receptor-related protein, LDL receptor, apolipoprotein E, and lipoprotein lipase in pregnancy.
 SO Journal of lipid research, (1995 Aug) Vol. 36, No. 8, pp. 1774-86.
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 SO International Congress Series (1995), 1066(Atherosclerosis X), 461-4
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 Journal code: 0376606. ISSN: 0022-2275.

L13 ANSWER 57 OF 71 MEDLINE on STN DUPLICATE 27
AU Mac Lachlan I; Nimpf J; Schneider W J
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lipoprotein receptors in association with vitellogenin.
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AU Mims M P; Darnule A T; Tovar R W; Pownall H J; Sparrow D A; Sparrow J T;
Via D P; Smith L C
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binding to the low density lipoprotein receptor
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Journal code: 2985121R. ISSN: 0021-9258.

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TI Expression of gp330 and gp330/alpha 2-macroglobulin receptor-associated
protein in renal tubular differentiation.
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48058-65. Electronic Publication: 2001-10-22.
Journal code: 2985121R. ISSN: 0021-9258.

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15498-503. Electronic Publication: 2001-02-02.
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L13 ANSWER 36 OF 71 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on
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 AU Chen, Yunfei; Hughes-Fulford, Millie [Reprint author]
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 lipoprotein receptor and its regulator, SREBP2.
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